

## Pathway Mathematical Studies- Applied Curriculum

### Lewis and Clark Community College Associate in Arts/Science Degree

#### Fall Year 1

LCCC Course		Hours
ENGL 131	First Year English	3
MATH 171 <sup>1</sup>	Analytical Geometry & Calculus	5
IAI Humn <sup>2</sup>	IAI Humanities	3
SPCH 131	Public Speaking	3
IAI SOC BEH	IAI Social Behavioral Science	3
<b>Total</b>		<b>17</b>

#### Spring Year 1

LCCC Course		Hours
ENGL 132	First Year English II	3
MATH 172 <sup>1</sup>	Analytical Geometry & Calculus II	5
IAI SOC BEH	IAI Social Behavioral Science	3
PHYS 141 <sup>1</sup>	General Physics I	5
<b>Total</b>		<b>16</b>

#### Fall Year 2

LCCC Course		Hours
MATH 271 <sup>1</sup>	Analytical Geometry & Calculus III	4
IAI SOC BEH	IAI Social Behavioral Science	3
IAI FA <sup>2</sup>	IAI Fine Arts	3
PHYS 142 <sup>1</sup>	General Physics	5
<b>Total</b>		<b>15</b>

#### Spring Year 2

LCCC Course		Hours
MATH 272 <sup>1</sup>	Differential Equations	3
IAI HUM/FA	IAI Humanities/ Fine Arts	3
IAI LS	IAI Life Science	3
IAI HUM/FA	IAI Humanities/ Fine Arts	3
PS/LS <sup>1</sup>	Additional Life/Physical Science	3
<b>Total</b>		<b>15</b>

**Associate in Art/Science Degree Total** **63**

<sup>1</sup>All Math/Science courses require a grade of "C" or better.

<sup>2</sup>Students will need to complete one Human Relations course for the Associate Degree. Please see Partnership advisor. Students can replace electives with additional course in HUM/FA and one additional course in Social Science to complete either the AA or AS degree.

### Southern Illinois University Edwardsville Bachelor of Science Degree

#### Fall Year 3

SIUE Course		Hours
MATH 223	Logic and Mathematical Reasoning	4
ELEC	Elective	3
MATH 321	Linear Algebra I	3
STAT 380	Statistics for Applications	3
CS 140	Introduction to Computing I	3
<b>Total</b>		<b>16</b>

#### Spring Year 3

SIUE Course		Hours
MATH 350	Introduction to Analysis	4
MATH 464	Partial Differential Equations	3
MATH/STAT/OR Math/Stats./Or. Elective		3
ELEC	Elective	3
CS 150	Introduction to Computing II	3
<b>Total</b>		<b>16</b>

#### Fall Year 4

SIUE Course		Hours
MATH 498	Senior Seminar	2
MATH/STAT/OR Math/Stats./Or. Elective		3
MATH 462	Applied Numerical Analysis	3
ELEC	Electives	4
CS 240	Introduction to Computing III	3
MATH 165	Intro.to Program. and Problem Solving	3
<b>Total</b>		<b>18</b>

#### Spring Year 4

SIUE Course		Hours
MATH 499	Senior Project	2
MATH/STAT/OR Math/Stats./Or. Elective		3
IS XXX	Interdisciplinary Course	3
MATH/STAT/OR Math/Stats./Or. Elective		3
ELEC	Electives	5
<b>Total</b>		<b>16</b>

**Bachelor of Science Degree Total** **129**

\*Students must complete 50% or more of the degree requirements at SIUE.

\* A course that satisfies both the ERGU and EREG requirement will count as one and not both.